

Module 5: Hands-On: Creating Ansible Playbooks



Installing software using Ansible Playbook:

Prerequisite:

- 1. 3 AWS Servers
- 2. Keyless Access configured between master and slaves
- 3. Configuration of slaves in Ansible Master's /etc/ansible/hosts
- 4. Slaves are called slave1 and slave2 respectively

Creating Ansible Playbook:

Step 1: Edit an Ansible Playbook in a new folder called 'ansible', by using the following commands:

```
$ mkdir ansible
$ cd ansible
$ sudo nano play.yaml
```

Step 2: Edit the play.yaml with the following syntax:

```
- hosts: slave1

become: yes

name: Installing apache2 on slave1

tasks:

- name: Install apache2

apt: name=apache2 state=latest

- hosts: slave2

become: yes

name: Installing nginx on slave2

tasks:

- name: installing nginx

apt: name=nginx state=latest
```



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Step 3: Run the Ansible Playbook using the following command:

```
$ ansible-playbook play.yaml
```

You have successfully installed NGINX and Apache2 on slave machines, based on their name.



Executing scripts using Ansible Playbook:

Step 1: Create a sample script in the Ansible folder. Here we are creating a script to enter some text in a file

```
$ sudo nano script.sh
```

Write the following syntax in the script:

```
#!/bin/sh
echo "hello world" > /var/www/html/1.html
```

Step 2: Let's create the Playbook now which is going to execute this script. Let's add a task to our previously written Playbook for slave2.

```
---
- hosts: slave1
become: yes
name: Installing apache2 on slave1
tasks:
- name: Install apache2
apt: name=apache2 state=latest
- hosts: slave2
become: yes
name: Installing nginx on slave2
tasks:
- name: installing nginx
apt: name=nginx state=latest
- name: Running a script
script: script.sh
```



Step 3: Let's run the script now using the following syntax:

```
$ ansible-playbook play.yaml
```

Let's verify the output by going to our browser, and navigating to /1.html



hello world

With this, we have successfully completed our Ansible Playbook hands-on.